

PHENIX WEEKLY PLANNING

6/1/06 Don Lynch



This Week

Technica.

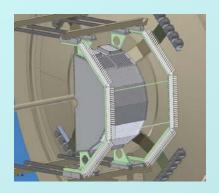
Support 2006

- · Holiday shortened week
- · Wed. access replaced/reset RXNP thermocrons & TLD's
- · PC maintenance (N2 flow over)
- · HBD testing continues return to dead turtle position 6/5?
- Sec'y of Energy visit floors cleans, smokers exiled, posters updated, carpets vacuumed, trash & metal trash removed, movies updated.

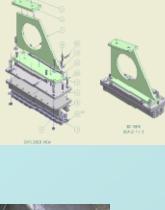


 HBD support fabrication to SB, purchasing list for off the shelf items.

· RXNP fabrication continues







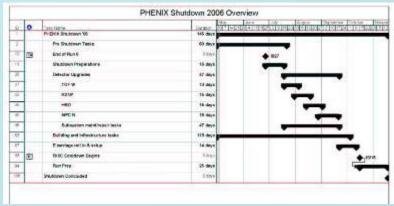
PHENIX Shutdown Overview



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Task_Name	Duration	Start_Date	Finish_Date
PHENIX Shutdown '06	145 days	5/1/2006	11/17/2006
Pre Shutdown Tasks	60 days	5/1/2006	7/21/2006
End of Run 6	0 days	6/27/2006	6/27/2006
Shutdown Preparations	16 days	6/27/2006	7/18/2006
Detector Upgrades	47 days	7/19/2006	9/21/2006
Planned electrical power outage	5 days	7/24/2006	7/28/2006
Subsystem maint/repair tasks	47 days	7/19/2006	9/21/2006
Building and infrastructure tasks	113 days	5/1/2006	10/4/2006
E carriage roll in & setup	14 days	9/22/2006	10/11/2006
RHIC Cooldown Begins	0 days	10/16/2006	10/16/2006
Run Prep	25 days	10/16/2006	11/17/2006
Shutdown Concluded	0 days	11/17/2006	11/17/2006







Detector Upgrades

TOF W Prepare installation Fixtures Mockup test installation TOF Mechanical installation TOF Electrical Installation RXNP

Prepare for installation
Mechanical installation
Electrical installation

Prepare for installation
Mechanical installation

Electrical installation

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HBD

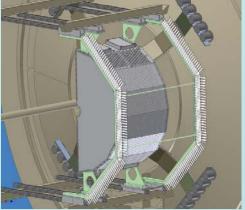
Move CM south
Prepare for installation
Mechanical installation
Electrical installation

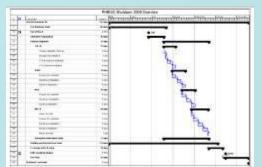
Move CM North



13 days	7/19/2006	8/4/2006
2 days	7/19/2006	7/20/2006
1 day	7/21/2006	7/21/2006
2 days	7/312006	8/1/2006
3 days	8/2/2006	8/4/2006
15 days	7/31/2006	8/18/2006
5 days	7/31/2006	8/4/2006
5 days	8/7/2006	8/11/2006
5 days	8/14/2006	8/18/2006
15 days	8/14/2006	9/1/2006
5 days	8/14/2006	8/18/2006
5 days	8/21/2006	8/25/2006
5 days	8/28/2006	9/1/2006
18 days	8/28/2006	9/20/2006
2 days	8/28/2006	8/29/2006
5 days	8/30/2006	9/5/2006
5 days	9/6/2006	9/12/2006
5 days	9/13/2006	9/19/2006
1 day	9/20/2006	9/20/2006











Subsystems

Task	Duration	Start	End
Subsystem maint/repair tasks	109 days	5/1/06	9/28/06
Prepare EC for subsystems work	1 wk	7/19/06	7/25/06
Magnet subsystems tasks (TBD)	1 day	7/19/06	7/19/06
Aerogel tasks (TBD)	1 day	7/20/06	7/20/06
BBC tasks	50 days	7/21/06	9/28/06
Remove BBC South	2 days	7/21/06	7/24/06
Replace PMT's	3 wks	7/25/06	8/14/06
Reinstall BBC South	2 days	8/15/06	8/16/06
Remove BBC North	2 days	9/4/06	9/5/06
Replace PMT's	3 wks	9/6/06	9/26/06
Reinstall BBC North	2 days	9/27/06	9/28/06
DC tasks (TBD)	1 day	5/1/06	5/1/06
EmCal tasks (TBD)	1 day	7/26/06	7/26/06
FCAL tasks (TBD)	1 day	7/27/06	7/27/06
MPC S tasks (TBD)	2 wks	7/19/06	8/1/06









Subsystems - BBC

a) BBC Maintenance Issues

*To replace a couple of PMT's whose gains are bits higher than those in each HV group. For heavy-ion runs, it may cause ADC overflows in the centrality measurement.

*We have no dead channels and if we do not expect any ions in RUN-7, we maybe able to leave as it is.

- b) Length of time for repairs

 * 6 weeks in lab work, including 2

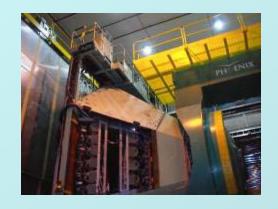
 weeks for startup.
- c) When they plan to be here
 * late August to September



Subsystems (continued)

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Task	Duration	Start	End
Subsystem maint/repair tasks	109 days	5/1/06	9/28/06
MuTr tasks	42 days	7/19/06	9/14/06
Remove southeast	·		
vertical lampshade	1 day	7/19/06	7/19/06
Repair HV	8 wks	7/20/06	9/13/06
Reinstall lampshade	1 day	9/14/06	9/14/06
MuID tasks (TBD)	1 day	8/2/06	8/2/06
PC tasks (TBD)	1 day	8/3/06	8/3/06
RICH tasks (TBD)	1 day	8/4/06	8/4/06
TEC tasks	·		
(General Maintenance)	9 wks	7/19/06	9/19/06
TOF E tasks (TBD)	1 day	8/7/06	8/7/06
ZDC tasks (TBD)	1 day	8/8/06	8/8/06
Other Subsystem tasks (TBD)	6 wks	8/9/06	9/19/06





2006



Next Week

- · Move HBD to Dead Turtle Position- Mon. 6/5?
- · No other access
- TOFW Hi Bay Exp. Safety Review PI ?
- · Continue shutdown prep
- Prepare for MPC & RXNP safety reviews (6/22 10:00 AM)



Next Week: RHIC Plans

From Kevin Brown:

- 1. 200 GeV run ends at 2 pm Monday
- 2. 22 GeV test run begins at 2 pm Monday and ends 2 pm Tuesday.
- 3. Tuesday morning, setup for NSRL-06B begins.
- 4. Tuesday at 2 pm, setup for 62.4 GeV begins.

Setup for the 62.4 GeV is expected to take 4 shifts, with one shift contingency.

- 1. develop rotators at injection & 110 bunches
- 2. ramp development (+rotator ramp if 1. is unsuccessful)
- 3-4. store development
- 5. If 62.4 GeV setup goes well, physics could begin as early as 10 pm to midnight on Wednesday.
- At this point PHENIX needs a 4-5 hour access to remove the HBD and put in their helium bag. This must be done before they can start physics.
- 6. MY Projection is physics will start at 4-5 am Thursday, if all goes well. It could be as much as 1 shift later if more time is needed to setup RHIC.
- 7. NSRL-06B begins running for experiments Thursday morning.

It is not advisable to interrupt RHIC setup for accesses, unless for absolute emergencies. RHIC physicists are going on shift starting Monday and care is being taken to schedule to right people at the right time.

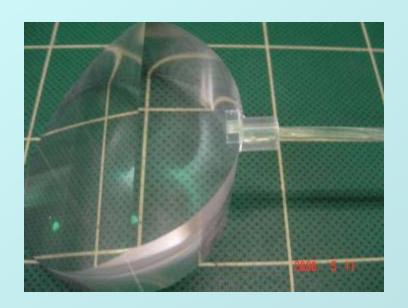
If it is decided that we run an extra 24 hours for the 22 GeV setup then all RHIC activities will slide forward by 24 hours.





PHIENIX Reaction Plane Detector (RXNP)





Unanswered question:

How do we hold/mount prism on PMT/arm?



Breaker Safety

Update on breaker analyses and equipment upgrade plans:

Fuse Issues

Siemens Allis Low Voltage Air Circuit Breaker









Next Access Day

- Technical Support 2006
- · Expect next full access day (8 hrs) to be June 21?
- · Expect 4 hrs for HBD change sometime next week
- Subsystems must arrange for tech assistance prior to access day or don't expect assistance. (see Don Lynch or John Haggerty)
- PHENIX Techs only on CM lift platform unless accompanied by PHENIX Tech (Lift platform electric plug is locked) Procedure and log sheet to be developed.
- · Planned:
 - · RXNP Thermocrons & TLD's out

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Support

2006

Other Projects

TOF West Expec

· Expect detectors to be at BNL by June 5. May want to change run

location: split top and bottom between sector 1 and 2? Experimental safety rweview paperwork rec'd and submitted

MPC North

Design efforts ongoing at UI. Design review June 22.

Muon RPC

· Nothing New

Beampipe design

· Nothing new design concept in progress

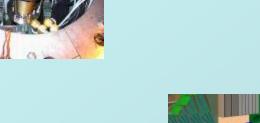
New CM Crane

· Nothing new

Engineering Documentation

· Nothing new









Installation

C-A Tasks

Current Tasks

- · General run support/building services
- ·New storage trailer (as promised)
- ·Fix roof leaks
- ·HVAC troubleshooting/repair

Tasks for Shutdown 2006

· See Shutdown schedule





Shutdown 2006 key dates

ė	•	Run ends June 26
C	•	End of Run Party June 29
h n	•	Open Shield wall June 30
i	•	Prep and move EC July 10
C	•	Install TOF W (start) July 19
a	•	Lost week for planned electrical outage July 24-28
	•	Install RXNP (start) July 31
S	•	Install HBD (start no later than) Aug 14 (possibly as early as Aug 1)
p	•	Install MPC North (start no later than) Aug 28
þ	•	Start EC roll in Sep. 22
0	•	Start RHIC Cooldown Oct. 15
r t	•	Start Physics data taking Nov. 17
2	5	ubsystems:
0		et requests for maintenance in early to get on the schedule



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Where To Find PHENIX Technical Info

Links for the shutdown schedule as well as weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found from the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm